

OIEP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/944,929

DATE: 01/07/2002
TIME: 16:27:35

Input Set : N:\Crf3\RULE60\09944929.raw
Output Set: N:\CRF3\01072002\I944929.raw

1 <110> APPLICANT: Baker, Kevin
2 Botstein, David
3 Eaton, Dan
4 Ferrara, Napoleone
5 Filvaroff, Ellen
6 Gerritsen, Mary
7 Goddard, Audrey
8 Godowski, Paul
9 Grimaldi, Christopher
10 Gurney, Austin
11 Hillan, Kenneth
12 Kljavin, Ivar
13 Napier, Mary
14 Roy, Margaret
15 Tumas, Daniel
16 Wood, William

ENTERED

17 <120> TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
18 ACIDS ENCODING THE SAME
19 <130> FILE REFERENCE: P2548P1C1
20 <140> CURRENT APPLICATION NUMBER: 09/944,929
21 <141> CURRENT FILING DATE: 2001-08-31
22 <150> PRIOR APPLICATION NUMBER: 09/866,028
23 <151> PRIOR FILING DATE: 2001-05-25
27 <160> NUMBER OF SEQ ID NOS: 120
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 2454
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo Sapien
33 <400> SEQUENCE: 1
34 ggactaatct gtgggagcag tttattccag tatcaccag ggtgcagcca 50
35 caccaggact gtgttgaagg gtgtttttt tcttttaa at gtaataacctc 100
36 ctcatctttt cttcttacac agtgtctgag aacatttaca ttatagataa 150
37 gtagtacatg gtggataact tctactttta ggaggactac tctcttctga 200
38 cagtcctaga ctggctcttct acactaagac accatgaagg agtatgtgct 250
39 cctattattc ctggctttgt gctctgccaa acccttcttt agcccttcac 300
40 acatcgcaact gaagaatatg atgctgaagg atatggaaga cacagatgat 350
41 gatgatgatg atgatgatga tgatgatgat gatgaggaca actctctttt 400
42 tccaacaaga gagccaagaa gccattttt tccatttgat ctgtttccaa 450
43 tgtgtccatt tggatgtcag tgctattcac gaggttgata ttgctcagat 500
44 ttaggtttga cctcagtcct aaccaacatt ccatttgata ctggaatgct 550
45 tgatcttcaa aacaataaaa ttaaggaaat caaagaaaat gattttaaag 600
46 gactcacttc actttatggt ctgatcctga acaacaacaa gctaacgaag 650
47 attcaccocaa aagcctttct aaccacaaag aagttgcgaa ggctgtatct 700
48 gtcccacaat caactaagtg aaataccact taatcttccc aaatcattag 750
49 cagaactcag aattcatgaa aataaagtta agaaaataca aaaggacaca 800
50 ttcaaaggaa tgaatgcttt acacgttttg gaaatgagtg caaacctct 850
51 tgataataat gggatagagc caggggcatt tgaaggggtg acggtgttcc 900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/944,929

DATE: 01/07/2002

TIME: 16:27:35

Input Set : N:\Crif3\RULE60\09944929.raw

Output Set: N:\CRF3\01072002\I944929.raw

```

52 atatcagaat tgcagaagca aaactgacct cagttcctaa aggttacca 950
53 ccaactttat tggagcttca cttagattat aataaaattt caacagtga 1000
54 acttgaggat tttaaagcat acaaagaact acaaaggctg ggcctaggaa 1050
55 acaacaaaat cacagatata gaaaatggga gtcttgctaa cataccacgt 1100
56 gtgagagaaa tacatttgga aaacaataaa ctaaaaaaa tcccttcagg 1150
57 attaccagag ttgaaatacc tccagataat cttccttcat tctaattcaa 1200
58 ttgcaagagt gggagtaaat gacttctgtc caacagtgcc aaagatgaag 1250
59 aaatctttat acagtgcaat aagtttattc aacaaccggt tgaaatactg 1300
60 ggaaatgcaa cctgcaacat ttcgttgtgt tttgagcaga atgagtgttc 1350
61 agcttgggaa ctttgggaatg taataattag taattggtaa tgtccattta 1400
62 atataagatt caaaaatccc tacatttgga atacttgaac tctattaata 1450
63 atggtagtat tatatataca agcaaatatc tattctcaag tggtaagtcc 1500
64 actgacttat tttatgacaa gaaatttcaa cggaattttg ccaaactatt 1550
65 gatacataag gggttgagag aaacaagcat ctattgcagt ttcctttttg 1600
66 cgtacaaatg atcttacata aatctcatgc ttgaccattc ctttcttcat 1650
67 aacaaaaaag taagatatcc ggtattttaac actttgttat caagcacatt 1700
68 ttaaaaaagaa ctgtactgta aatggaatgc ttgacttagc aaaatttgtg 1750
69 ctctttcatt tgctgttaga aaaacagaat taacaaagac agtaatgtga 1800
70 agagtgcatt acactattct tattcttttag taacttgggt agtactgtaa 1850
71 tttttttaat catcttaaaag tatgatttga tataatctta ttgaaattac 1900
72 cttatcatgt cttagagccc gtctttatgt ttaaaactaa tttcttaaaa 1950
73 taaagccttc agtaaatggt cattaccaac ttgataaatg ctactcataa 2000
74 gagctggttt ggggctatag catatgcttt ttttttttta attattacct 2050
75 gatttaaaaa tctctgtaaa aacgtgtagt gtttcataaa atctgtaact 2100
76 cgcattttta tgatccgcta ttataagctt ttaatagcat gaaaattggt 2150
77 aggtatatata acattgccac ttcaactcta aggaatattt ttgagatata 2200
78 cctttggaag accttgcttg gaagagcctg gacactaaca attctacacc 2250
79 aaattgtctc ttcaaatacg tatggactgg ataactctga gaaacacatc 2300
80 tagtataact gaataagcag agcatcaaat taaacagaca gaaaccgaaa 2350
81 gctctatata aatgctcaga gttctttatg tattctttat tggcattcaa 2400
82 catatgtaaa atcagaaaac agggaaattt tcattaaaaa tattgggttg 2450
83 aaat 2454

```

85 <210> SEQ ID NO: 2

86 <211> LENGTH: 379

87 <212> TYPE: PRT

88 <213> ORGANISM: Homo Sapien

89 <400> SEQUENCE: 2

```

90 Met Lys Glu Tyr Val Leu Leu Leu Phe Leu Ala Leu Cys Ser Ala 15
91 1 5 10
92 Lys Pro Phe Phe Ser Pro Ser His Ile Ala Leu Lys Asn Met Met 30
93 20 25
94 Leu Lys Asp Met Glu Asp Thr Asp Asp Asp Asp Asp Asp Asp 45
95 35 40
96 Asp Asp Asp Asp Asp Glu Asp Asn Ser Leu Phe Pro Thr Arg Glu 60
97 50 55
98 Pro Arg Ser His Phe Phe Pro Phe Asp Leu Phe Pro Met Cys Pro 75
99 65 70
100 Phe Gly Cys Gln Cys Tyr Ser Arg Val Val His Cys Ser Asp Leu 90
101 80 85

```

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/944,929

DATE: 01/07/2002
 TIME: 16:27:35

Input Set : N:\Crf3\RULE60\09944929.raw
 Output Set: N:\CRF3\01072002\I944929.raw

102	Gly Leu Thr Ser Val Pro Thr Asn Ile Pro Phe Asp Thr Arg Met	100	105
103	95		
104	Leu Asp Leu Gln Asn Asn Lys Ile Lys Glu Ile Lys Glu Asn Asp	115	120
105	110		
106	Phe Lys Gly Leu Thr Ser Leu Tyr Gly Leu Ile Leu Asn Asn Asn	130	135
107	125		
108	Lys Leu Thr Lys Ile His Pro Lys Ala Phe Leu Thr Thr Lys Lys	145	150
109	140		
110	Leu Arg Arg Leu Tyr Leu Ser His Asn Gln Leu Ser Glu Ile Pro	160	165
111	155		
112	Leu Asn Leu Pro Lys Ser Leu Ala Glu Leu Arg Ile His Glu Asn	175	180
113	170		
114	Lys Val Lys Lys Ile Gln Lys Asp Thr Phe Lys Gly Met Asn Ala	190	195
115	185		
116	Leu His Val Leu Glu Met Ser Ala Asn Pro Leu Asp Asn Asn Gly	205	210
117	200		
118	Ile Glu Pro Gly Ala Phe Glu Gly Val Thr Val Phe His Ile Arg	220	225
119	215		
120	Ile Ala Glu Ala Lys Leu Thr Ser Val Pro Lys Gly Leu Pro Pro	235	240
121	230		
122	Thr Leu Leu Glu Leu His Leu Asp Tyr Asn Lys Ile Ser Thr Val	250	255
123	245		
124	Glu Leu Glu Asp Phe Lys Arg Tyr Lys Glu Leu Gln Arg Leu Gly	265	270
125	260		
126	Leu Gly Asn Asn Lys Ile Thr Asp Ile Glu Asn Gly Ser Leu Ala	280	285
127	275		
128	Asn Ile Pro Arg Val Arg Glu Ile His Leu Glu Asn Asn Lys Leu	295	300
129	290		
130	Lys Lys Ile Pro Ser Gly Leu Pro Glu Leu Lys Tyr Leu Gln Ile	310	315
131	305		
132	Ile Phe Leu His Ser Asn Ser Ile Ala Arg Val Gly Val Asn Asp	325	330
133	320		
134	Phe Cys Pro Thr Val Pro Lys Met Lys Lys Ser Leu Tyr Ser Ala	340	345
135	335		
136	Ile Ser Leu Phe Asn Asn Pro Val Lys Tyr Trp Glu Met Gln Pro	355	360
137	350		
138	Ala Thr Phe Arg Cys Val Leu Ser Arg Met Ser Val Gln Leu Gly	370	375
139	365		
140	Asn Phe Gly Met		
142	<210> SEQ ID NO: 3		
143	<211> LENGTH: 20		
144	<212> TYPE: DNA		
145	<213> ORGANISM: Artificial Sequence		
146	<220> FEATURE:		
147	<223> OTHER INFORMATION: Synthetic Oligonucleotide Probe		
148	<400> SEQUENCE: 3		
149	ggaaatgagt gcaaaccctc 20		
151	<210> SEQ ID NO: 4		
152	<211> LENGTH: 24		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/944,929

DATE: 01/07/2002
TIME: 16:27:35

Input Set : N:\Crif3\RULE60\09944929.raw
Output Set: N:\CRF3\01072002\I944929.raw

```

153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
157 <400> SEQUENCE: 4
158      tcccaagctg aacactcatt ctgc 24
160 <210> SEQ ID NO: 5
161 <211> LENGTH: 50
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
166 <400> SEQUENCE: 5
167      gggtagcggg gttccatatt agaattgcag aagcaaaact gacctcagtt 50
169 <210> SEQ ID NO: 6
170 <211> LENGTH: 3441
171 <212> TYPE: DNA
172 <213> ORGANISM: Homo Sapien
173 <400> SEQUENCE: 6
174      cggacgcgtg ggcggacgcg tgggcccgcg gcaccgcccc cggcccggcc 50
175      ctccgcccct cgcactcgcg cctccctccc tccgcccgtc cccgcgccct 100
176      cctccctccc tctcccccag ctgtcccgtt cgcgtcatgc cgagcctccc 150
177      ggcgccgcgc gcccgcgtgc tgctcctcgc gctgctgctg ctcggetccc 200
178      ggccggcccg cggcgccggc ccagagcccc ccgtgctgcc catccgttct 250
179      gagaaggagc cgtgcccgtt tcggggagcg gcaggctgca ccttcggcgg 300
180      gaaggtctat gccttgacgc agacgtggca cccggacctc gggcagccat 350
181      tcgggggtgat gcgtgcgtg ctgtgcgcct gcgaggcgcc tcaaaccaga 400
182      cgcggtacca ggggccctgg cagggtcagc tgcaagaaca tcaaaccaga 450
183      gtgcccacc cccgcctgtg ggcagccgcg ccagctgccg ggacactgct 500
184      gccagacctg ccccaggag cgcagcagtt cggagcggca gccgagcggc 550
185      ctgtccttcg agtatccgcg ggaccggag catcgagtt atagcgaccg 600
186      cggggagcca ggcgctgagg agcgggcccc tggtagcggc cacacggact 650
187      tcgtggcgct gctgacaggg ccgaggtcgc aggcgggtggc acgagcccga 700
188      gtctcgtcgc tgcgtcttag cctccgcttc tctatctcct acaggcggt 750
189      ggaccgccc accaggatcc gcttctcaga ctccaatggc agtgtcctgt 800
190      ttgagcaccc tgcagccccc acccaagatg gcctgggtctg tggggtgtgg 850
191      cgggagtgct ctcggttgct tctgcggctc cttagggcag aacagctgca 900
192      tgtggcactt gtgacactca ctcacccttc aggggaggtc tgggggcttc 950
193      tcatccggca ccgggccctg gctgcagaga ccttcagtgc catcctgact 1000
194      ctagaaggcc cccacagca gggcgtaggg ggcacacccc tgctcactct 1050
195      cagtgcacac gaggactcct tgcatttttt gctgctcttc cgagggtgct 1100
196      tggaaccagc gagggtggga ctaaccaggg ttcccttgag gctccagatt 1150
197      ctacaccagg ggcagctact gcgagaactt caggccaatg tctcagccca 1200
198      ggaaccaggc tttgctgagg tgctgcccac cctgacagtc caggagatgg 1250
199      actggctggt gctgggggag ctgcagatgg ccctggagtg ggcaggcagg 1300
200      ccagggtcgc gcatcagtg acacattgct gccaggaaga gctgcgacgt 1350
201      cctgcaaagt gtcctttgtg gggctgatgc cctgatccca gtccagacgg 1400
202      gtgctgccgg ctacgccagc ctcacgctgc taggaaatgg ctccctgatc 1450
203      tatcaggtgc aagtggtagg gacaagcagt gaggtgggtg ccatgacact 1500

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/944,929

DATE: 01/07/2002
TIME: 16:27:35

Input Set : N:\Crf3\RULE60\09944929.raw
Output Set: N:\CRF3\01072002\I944929.raw

```

204 ggagaccaag cctcagcgga gggatcagcg cactgtcctg tgccacatgg 1550
205 ctggactcca gccaggagga cacacggccg tgggtatctg ccctgggctg 1600
206 ggtgcccag gggctcatat gctgctgcag aatgagctct tctggaacgt 1650
207 gggcaccag gaattcccag acggagagct tcgggggcac gtggctgccc 1700
208 tgccctactg tgggcatagc gcccgccatg acacgctgcc cgtgccccta 1750
209 gcaggagccc tgggtgtacc ccctgtgaag agccaagcag cagggcacgc 1800
210 ctggctttcc ttggataccc actgtcacct gcactatgaa gtgctgtgg 1850
211 ctgggcttgg tggctcagaa caaggcactg tcaactgcca cctccttggg 1900
212 cctcctggaa cgccagggcc tcggcgctg ctgaagggat tctatggctc 1950
213 agaggcccag ggtgtggtga aggacctgga gccggaactg ctgcgccacc 2000
214 tggcaaaagg catggcctcc ctgatgatca ccaccaaggg tagccccaga 2050
215 ggggagctcc gagggcaggt gcacatagcc aaccaatgtg aggttggcgg 2100
216 actgcgctg gaggcggccg gggcgcaggg ggtgcgggcg ctgggggctc 2150
217 cggatacagc ctctgctgcg ccgctgtgg tgcctggtct cccggcccta 2200
218 gcgcccgcga aacctggtgg tctggggcg ccccgagacc ccaacacatg 2250
219 ctctctcgag gggcagcagc gccccacgg ggctcgctgg gcgcccact 2300
220 acgaccgct ctgtcactc tgcaactgcc agagacgaac ggtgatctgt 2350
221 gaccgggtgg tgtgcccacc gccagctgc ccacaccgg tcaggctcc 2400
222 cgaccagtgc tgccctgttt gccctgagaa acaagatgtc agagacttgc 2450
223 cagggctgcc aaggagccgg gaccaggag agggctgcta tttgatgg 2500
224 gaccggagct ggcgggcagc gggtagcgg ctgctgcac ctgcaagggg ggcactggag 2600
225 ctttggttta attaatgtgt ctgtctgcac cagtgtcccc ggctggcctg tgcccagcct 2650
226 aggtgcaact tgagaagggt cagtgtcccc cagtgtccag tggggtcggg 2700
227 gtgcgtgtca accccaccca cctgtgcaaa ggctgatggg ccccggggct 2750
228 ggcccccccc cagctggggg accccatgca ggctgatggg ccccggggct 2800
229 gccgttttgc tgggcagtgg tcccagaga gtcagagctg gcacccctca 2850
230 gtgccccctt ttggagagat gagctgtatc acctgcagat gtggggcagg 2900
231 ggtgcctcac tgtgagcggg atgactgttc actgccactg tctgtgtgg 2950
232 cggggaagga gagtcgatgc tgttcccgt gcacggccca ccggcgccc 3000
233 ccagagacca gaactgatcc agagctggag aaagaagccg aaggctctta 3050
234 gggagcagcc agagggccaa gtgaccaaga ggatggggcc tgagctgggg 3100
235 aaggggtggc atogaggacc ttcttgcat ctctgtggg aagcccagt 3150
236 cctttgctcc tctgtcctgc ctctactccc accccacta cctctgggaa 3200
237 ccacagctcc acaaggggga gaggcagct ggccagaccg aggtcacagc 3250
238 cactccaagt cctgccctgc caccctcgg ctctgtcctg gaagcccac 3300
239 ccctttcttc ctgtacataa tgtcactggc ttgttgggat ttttaattta 3350
240 tottactca gcaccaagg ccccgacac tccactcctg ctgcccctga 3400
241 gctgagcaga gtcattatt gagagtttt tatttattaa aacatttct 3441
242 tttcagtcga aaaaaaaaa aaaaaaaaa aaaaaaaaa a

```

244 <210> SEQ ID NO: 7

245 <211> LENGTH: 954

246 <212> TYPE: PRT

247 <213> ORGANISM: Homo Sapien

248 <400> SEQUENCE: 7

```

249 Met Pro Ser Leu Pro Ala Pro Pro Ala Pro Leu Leu Leu Leu Gly
250 1 5 10 15
251 Leu Leu Leu Leu Gly Ser Arg Pro Ala Arg Gly Ala Gly Pro Glu
252 20 25 30
253 Pro Pro Val Leu Pro Ile Arg Ser Glu Lys Glu Pro Leu Pro Val

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/944,929

DATE: 01/07/2002

TIME: 16:27:36

Input Set : N:\Crf3\RULE60\09944929.raw
Output Set: N:\CRF3\01072002\I944929.raw